Contents of Volume 43, 2004

Number One (G321-0152-00)

Preparing for utility computing: The role of IT architecture and relationship management 5
J. W. Ross and G. Westerman

Price-at-Risk: A methodology for pricing utility computing services 20
G. A. Paleologo

The utility business model and the future of computing services 32
M. A. Rappa

A Web content serving utility 43
P. Gayek, R. Nesbitt, H. Pearthree, A. Shaikh, and B. Snitzer

How to build a WebFountain: An architecture for very large-scale text analytics 64
D. Gruhl, L. Chavet, D. Gibson, J. Meyer, P. Pattanayak, A. Tomkins, and J. Zien

An architecture for the coordination of system management services 78
V. K. Naik, A. Mohindra, and D. F. Bantz

Using a utility computing framework to develop utility systems 97
T. Eilam, K. Appleby, J. Breh, G. Breiter, H. Daur, S. A. Fakhouri, G. D. H. Hunt, T. Lu, S. D. Miller, L. B. Mummert, J. A. Pershing, and H. Wagner

Policy-based automated provisioning 121
K. Appleby, S. B. Calo, J. R. Giles, and K.-W. Lee

Web services on demand: WSLA-driven automated management 136
A. Dan, D. Davis, R. Kearney, A. Keller, R. King, D. Kuebler, H. Ludwig, M. Polan, M. Spreitzer, and A. Youssef

Utility computing SLA management based upon business objectives 159
M. J. Buco, R. N. Chang, L. Z. Luan, C. Ward, J. L. Wolf, and P. S. Yu

The utility metering services of the Universal Management Infrastructure 179
V. Albaugh and H. Madduri

Design of an enablement process for on demand applications 190
K. Chang, A. Dasari, H. Madduri, A. Mendoza, and J. Mims

Number Two (G321-0153)

WebSphere Application Server: A foundation for on demand computing 213
E. N. Herness, R. J. High, and J. R. McGee

WebSphere Business Integration: An architectural overview 238
K. Bhaskaran and M.-T. Schmidt

Enabling distributed enterprise integration with WebSphere and DB2 Information Integrator 255
C. M. Saracco, M. A. Roth, and D. C. Wolfson

Business process choreography in WebSphere: Combining the power of BPEL and J2EE 270
M. Kloppmann, D. König, F. Leymann, G. Pfau, and D. Roller

On demand Web-client technologies 297
J. Ponzo, L. D. Hasson, J. George, G. Thomas, O. Gruber, R. Konuru, A. Purakayastha, R. D. Johnson, J. Colson, and R. A. Pollak

WebSphere connector architecture evolution 316
S. M. Fontes, C. J. Nordstrom, and K. W. Sutter

Contents of Volume 43, 2004

Number One (G321-0152-00)

Preparing for utility computing: The role of IT architecture and relationship management 5
J. W. Ross and G. Westerman

Price-at-Risk: A methodology for pricing utility computing services 20
G. A. Paleologo

The utility business model and the future of computing services 32
M. A. Rappa

A Web content serving utility 43
P. Gayek, R. Nesbitt, H. Pearthree, A. Shaikh, and B. Snitzer

How to build a WebFountain: An architecture for very large-scale text analytics 64
D. Gruhl, L. Chavet, D. Gibson, J. Meyer, P. Pattanayak, A. Tomkins, and J. Zien

An architecture for the coordination of system management services 78
V. K. Naik, A. Mohindra, and D. F. Bantz

Using a utility computing framework to develop utility systems 97
T. Eilam, K. Appleby, J. Breh, G. Breiter, H. Daur, S. A. Fakhouri, G. D. H. Hunt, T. Lu, S. D. Miller, L. B. Mummert, J. A. Pershing, and H. Wagner

Policy-based automated provisioning 121
K. Appleby, S. B. Calo, J. R. Giles, and K.-W. Lee

Web services on demand: WSLA-driven automated management 136
A. Dan, D. Davis, R. Kearney, A. Keller, R. King, D. Kuebler, H. Ludwig, M. Polan, M. Spreitzer, and A. Youssef

Utility computing SLA management based upon business objectives 159
M. J. Buco, R. N. Chang, L. Z. Luan, C. Ward, J. L. Wolf, and P. S. Yu

The utility metering services of the Universal Management Infrastructure 179
V. Albaugh and H. Madduri

Design of an enablement process for on demand applications 190
K. Chang, A. Dasari, H. Madduri, A. Mendoza, and J. Mims

Number Two (G321-0153)

WebSphere Application Server: A foundation for on demand computing 213
E. N. Herness, R. J. High, and J. R. McGee

WebSphere Business Integration: An architectural overview 238
K. Bhaskaran and M.-T. Schmidt

Enabling distributed enterprise integration with WebSphere and DB2 Information Integrator 255
C. M. Saracco, M. A. Roth, and D. C. Wolfson

Business process choreography in WebSphere: Combining the power of BPEL and J2EE 270
M. Kloppmann, D. König, F. Leymann, G. Pfau, and D. Roller

On demand Web-client technologies 297
J. Ponzo, L. D. Hasson, J. George, G. Thomas, O. Gruber, R. Konuru, A. Purakayastha, R. D. Johnson, J. Colson, and R. A. Pollak

WebSphere connector architecture evolution 316
S. M. Fontes, C. J. Nordstrom, and K. W. Sutter

Designing WebSphere Application Server for performance: An evolutionary approach 327
R. Willenborg, K. Brown, and G. Cuomo

WebSphere Dynamic Cache: Improving J2EE application performance 351
R. Bakalova, A. Chow, C. Fricano, P. Jain, N. Kodali, D. Poirier, S. Sankaran, and D. Shupp

Eclipse: A platform for integrating development tools 371
J. des Rivières and J. Wiegand

WebSphere Studio overview 384
F. Budinsky, G. DeCandio, R. Earle, T. Francis, J. Jones, J. Li, M. Nally, C. Nelin, V. Popescu, S. Rich, A. Ryman, and T. Wilson

WebSphere Portal: Unified user access to content, applications, and services 420
R. Will, S. Ramaswamy, and T. Schaeck

Issues in the development of transactional Web applications 430
R. D. Johnson and D. Reimer

Number Three (G321-0154-00)

Towards the next generation of enterprise search technology 451
A. Z. Broder and A. C. Ciccolo

Building an example application with the Unstructured Information Management Architecture 455
D. Ferrucci and A. Lally

Design and implementation of the UIMA Common Analysis System 476
T. Götz and O. Suhre

Text analytics for life science using the Unstructured Information Management Architecture 490
R. Mack, S. Mukherjea, A. Soffer, N. Uramoto, E. Brown, A. Coden, J. Cooper, A. Inokuchi, B. Iyer, Y. Mass, H. Matsuzawa, and L.V. Subramaniam

A text-mining system for knowledge discovery from biomedical documents 516
N. Uramoto, H. Matsuzawa, T. Nagano, A. Murakami, H. Takeuchi, and K. Takeda

Market Intelligence Portal: An entity-based system for managing market intelligence 534
Z. Su, J. Jiang, T. Liu, G. T. Xie, and Y. Pan

Glossary extraction and utilization in the information search and delivery system for IBM Technical Support 546
L. Kozakov, Y. Park, T. Fin, Y. Drissi, Y. Doganata, and T. Cofino

Summarizing technical support documents for search: Expert and user studies 564
C. G. Wolf, S. R. Alpert, J. G. Vergo, L. Kozakov, and Y. Doganata

The Four-Domain Architecture: An approach to support enterprise architecture design 587
B. Iyer and R. Gottlieb

The role of ontologies in autonomic computing systems 598
L. Stojanovic, J. Schneider, A. Maedche, S. Libischer, R. Studer, Th. Lumpp, A. Abecker, G. Breiter, and J. Dinger

Number Four (G321-0155-00)

Evolution of grid computing architecture and grid adoption models 624
J. Joseph, M. Ernest, and C. Fellenstein

Design and implementation of an enterprise grid 646
D. Meliksetian, J.-P. Prost, A. S. Bahl, I. Boutboul, D. P. Currier, S. Fibra, J.-Y. Girard, K. M. Kassab, J.-L. Lepesant, C. Malone, and P. Manesco

Towards an information infrastructure for the grid 665
S. Bourbonnais, V. M. Gogate, L. M. Haas, R. W. Horman, S. Malaika, I. Narang, and V. Raman

Abstract interdomain security assertions: A basis for extra-grid virtual organizations 689
B. E. Carpenter and P. A. Janson

Global namespace for files 702
O. T. Anderson, L. Luan, C. Everhart, M. Pereira, R. Sarkar, and J. Xu

A Logger System based on Web services 723
B. Horn, H. Balakrishnan, B. T. Maniampadavathu, J. Warnes, and D. A. Elko

Service domains 734
Y.-S. Tan, V. Vellanki, J. Xing, B. Topol, and G. Dudley

MyMed: A database system for biomedical research on MEDLINE data 756
K. N. Lewis, M. D. Robinson, T. R. Hughes, and C. W. V. Hogue

Note—Numbers in parentheses after issue numbers denote the issue order numbers.